



Created: 2 hours, 3 minutes after earthquake

**PAGER** 

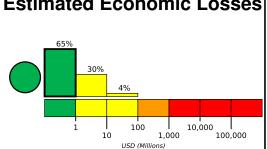
Version 2

# **M 5.7, 114 km SSE of Kokopo, Papua New Guinea**Origin Time: 2023-09-28 19:21:17 UTC (Fri 05:21:17 local) Location: 5.2575° S 152.7555° E Depth: 48.9 km

**Estimated Fatalities** 10,000 1,000

and economic losses. There is a low likelihood of casualties and damage.

Green alert for shaking-related fatalities Estimated Economic Losses



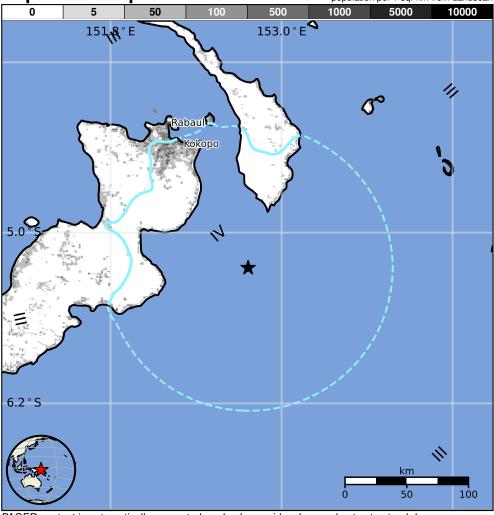
**Estimated Population Exposed to Earthquake Shaking** 

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	246k*	206k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

<sup>\*</sup>Estimated exposure only includes population within the map area.

# Population Exposure

population per 1 sq. km from Landscan



#### PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/us6000lbhd#pager

### **Structures**

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unreinforced brick masonry construction.

# **Historical Earthquakes**

Date	Dist.	Mag.	Max	Shaking	
(UTC)	(km)		MMI(#)	Deaths	
1996-04-29	296	7.2	VII(57k)	1	
1985-05-10	191	7.2	VII(28k)	1	
1983-12-21	97	6.2	VII(5k)	10	
	(UTC) 1996-04-29 1985-05-10	(UTC) (km) 1996-04-29 296 1985-05-10 191	(UTC)         (km)           1996-04-29         296         7.2           1985-05-10         191         7.2	(UTC)         (km)         MMI(#)           1996-04-29         296         7.2         VII(57k)           1985-05-10         191         7.2         VII(28k)	

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

## **Selected City Exposure**

from GeoNames org

nom doortameererg				
MMI	City	Population		
Ш	Rabaul	8k		
IV	Kokopo	26k		

bold cities appear on map.

(k = x1000)